



CATALOGUE OF 9-255 EXCAVATOR REPAIR PARTS



«MACHINOEXPORT»

CATALOGUE
OF 9-255
EXCAVATOR REPAIR PARTS

50X1-HUN

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PREFACE

This Catalogue includes the Specifications and a brief description of the 3-255 Excavator, as well as drawings of its main units and sketches of parts subjected to wear.

Refer to this Catalogue when drawing up a list of spare parts required for replacement during general overhaul and maintenance operations.

The specified therein data on the amount of the parts required per unit, and for the Excavator on the whole, as well as those concerning weight and material of the part in question, will allow to account the quantity of material needed for their production at User's repair shops.

The grades of steel shown in the Catalogue are in conformance with All-Union Standards (GOST), except for steel 30 ΓЛ (Plant specific to the conformation of the conf

The Catalogue may be used likewise as a handbook to be referred to when some of the parts are disassembled in warehouse conditions, and also for acquainting oneself with the design of individual units and repair parts.

BRIEF DESCRIPTION OF THE 3-255 EXCAVATOR

The 9-255 Excavator is intended for various earthwork, construction and mounting operations, as well as for handling jobs performed in municipal, industrial, and road building.



General view of the Excavator

The Excavator may be equipped with a no-crowd straight shovel, a back shovel, a clamshell, and a crane, the latter having either an 8 m boom (for handling operations on loads up to 5 tons), a boom of 12, 15 or 18 m (for construction and mounting operations on loads up to 2 tons), or, finally, an 18 m boom fitted with a goosneck (for construction and mounting operations on loads up to 1 ton).

The Excavator consists of a turntable with the power unit, mechanisms and cab, further on, of a track frame unit, and a set of changeable working equipment.

able working equipment.

On the turntable are installed: an engine with drive mechanisms, the main transmission shaft with reversing device, main winch, boom luffing winch, swinging mechanism, and the track frame unit transmiss-

ion. The control panel is situated on the right front part of the turntable. The track frame assembly of the Excavator consists of a special two-axle bogie on pneumatic tyres driven by a J.54 Diesel engine, placed on the turntable.

The construction of the Excavator comprises the rear axle of the RA3-200 automobile, and a special drive front axle. The axle is driven by the bottom transmission through propeller shafts. The rear axle is rigidly fastened to the frame, while the front axle is suspended on sortings.

rigidly fastened to the frame, while the front axle is suspended on springs.

The Excavator has two turntable swinging speeds and four front and back travelling speeds. All shafts rest in rolling friction bearings. The gear transmissions are enclosed in housings.

The main winch drum clutches are engaged by friction plates. The main winch brakes are of the open type. Loads are lowered either on engaged brakes or with engine operating.

All mechanisms of the Excavator turntable are controlled by levers. Hydraulic control is used for the front and rear wheel brakes, and the power train; the steering control of the front wheels and shifting of the track frame bottom transmission gears are likewise of the hydraulic type.

The operating diagram of the Excavator mechanisms provides for either of above operations to be combined, except for travelling with simultaneous swinging of turntable.

SPECIFICATIONS

General Data

	Genera	Dute	
Excavator travelling speed, km per hr 1.3-	-14.1	Minimum turning radius, mm Number of cuts per min	8200 4
Tread, mm: front wheels rear wheels	1950 1920 2800	Radius of arc performed by the tail end of the cab, mm	2150
Excavator wheelbase, mm	2800	Overall dimensions, mm:	
Engine: type	Д-54 54 1300	length	4100 2700 3500
Maximum rising gradient during high- way travel, degrees	20	Weight (equipped with a straight shovel), tons	12.5
,	Vorking	Equipment	
Straight Shovel		Maximum cutting depth at 45° boom incline, m:	
Bucket capacity, cu. m	0.25	for ditches	4.0 2.6
boom	4.5	Boom 45°	incline 60°
dipper stick	2.35	·-	00
• • • • • • • • • • • • • • • • • • • •	incline	Dumping radius, m:	3.95
45°	60°	initial	5.24
Maximum radius, m:		Radius of dumping into vehicles, m 1.91	2.65
dumping 5.25	4.76		
cutting	5.37	Dragline	
Maximum dumping height, m 3.31	4.26	Bucket capacity, cu. m	0.35 8 incline
Back Shovel		30*	45°
Bucket capacity, cu. m	0.25	Maximum radius, m: dumping 7.8	6.5
Length, m:		cutting 9.2	8.4
boom	4.5 2.35	Maximum dumping height, $m cdots 2.8$ Cutting depth during side travel, $m cdot 3.6$	4. 5 3 .0

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Сгапе

Craire							
Boom length,	Clearance radius, m	Hoisted load,	Maximum hook hoisting height, m	Boom length,	Clearance radius, m	Hoisted load, tons	Maximum hook hoisting height, a
8	3 8	5 1.4	7.2 3.6	18	4.5 17	2 0.25	16.5 8
12	3.2 11.6	4 0.8	10.5 4.8				
15	4 14.3	3 0.5	13.7 6.5	18 with a 5 m goosneck	8 14	0.35	20 17

Clamshell

Boom length, m	 8 and 12
Bucket capacity, cu. m	 0.35
Clearance radius range, m	 4.8 - 7.6
Maximum dumping height, m	 9.5

REPAIR PARTS

Item number on drawing Part No.

Part name

0202-02 Drive sprocket

Drive sheave

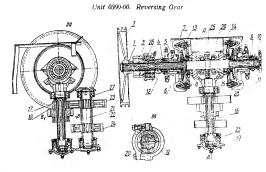
Ball bearing 70 × 125 × 24 Ball bearing 80 × 140 × 26 Three-row Gall's chain, t-19.05, 132 links

0202-04

No. 214

3 4 5 No. 216





Unit 0300-00. Reversing Gear

uantity per	Part	Material
machine	weight,	grade
1	7.5	Steel, 45
1	1.7	Gray cast iron, 15-33
	1.04 1.38	

ng per				Qua	ntity e r	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	niit	machine	weight,	grade
1	0301-01* 0301 5-01**	Horizon'al shaft	99	-	1	22.3	Steel, 40X
2	0301-02A* 0301 5-02**	Three-row sprocked	1-005; 1-85	1	1	29.3	Steel, 301 Л

* Installed on Excavators from No. 1 to No. 474 inclusive ** Installed on Excavators from No. 475 onward

	Sketch of part	Sketch of part	Quantity per		Part	Material
Part No.	Part name	- 825 - - 85-	THE STATE OF THE S	machine	weight,	grade
0301-03* 0301 B-03**	Pinion gear	2-17; m-8	1	1	8.3	Steel, 40X
0301-09* 03016-09**	Left coupling	2.00 est	1	1	0.95	Steel, 45
0301-15	Clutch pawl		6	9	0.35	Steel, 45
0301-20	Crowd ring	0 ga	2	3	0.35	Steel. I5X
0301-21** 0401-37***	Clatch	2000	2	3	26.2	Steel, 30ГЛ
	0301-03** 0301E-03** 0301-09* 0301-15	0301-03** Pinion gear 03016-03** Left coupling 03016-09** Left coupling 0301-15 Clutch pawl	Part No. Part name 6301-63** Pinion gear 0301-60** Left coupling 0301-70** Clutch pawl 0301-21** Clutch pawl	Part No. Part name 25	Part No. Part name 25	Part No. Part name 25

11-4 0200	00 F	 Ò	

13

, g				Quantity per		Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight,	grade
8	0301-22	Release spring		2	3	1.65	Steel, 65Γ
9	0301-27* 0301 Б-27**	Right coupling		i	2	0.92	Steel, 45
10	0301-31	Gear semi-coupling	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	-	2.4	Steel, 5
11	0301-32	Gear sleeve	2-32; m=2.5	1	1	0.62	Steel. 5
12	0301-38	Lock spring		1	6	0.021	П-11

Installed on Excavators from No. 1 to No. 474 inclusive
 Installed on Excavators from No. 475 onward

<u>يو په</u>				Qua	intity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
13	ЭКС-166	Clutch shoe	8160	8	12	0.78	Plastic. КФ-3М
14	03011-00A* 030116-00**	Bevel gear		2	2	14.0	Steel, 40X
15	0302-01	Bevel gear	2-27, m-85	1	1	8.6	Steel, 40X
16	0302-02	Vertical shaft	475 475 477 477 477 477 477 477 477 477	1	1	10.2	Steel, 40X

Installed on Excavators from No. 1 to No. 474 inclusive installed on Excavators from No. 475 onward

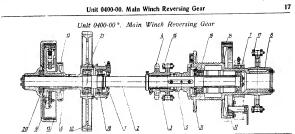
Unit 0300-00. Reversing Gear 15						
ar	t No.	Part name	Sketch of part	ntity er er	Part weight,	Material grade
02	-03	Pinion gear	AA 253		2.3	Steel, 40X
92	-04	Pinion gvar	19 19 19 19 19 19 19 19 19 19 19 19 19 1	1	9.6	Steel, 40X
)2	-05	Switching collar		1	0.85	Bronze, AЖ 9-4
02	-06	Switching clamp	36 O	1	0.46	Bronze, AЖ 9-4

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3-255 Excavator

i k				Qua F	ntity er	Part Materia	
on drawing	Part No.	Part name	Sketch of part	unit	machine		
21	0303-01 A*	Countershaft	2.200	1		9.8	Steel, 407
22	0303-015**	Countershaft	402	1	1	9.0	Steel, 407
23	0303-04	Pinion gear	955 0 222 1-55 - 1-57 m-s	1	1	15.4	Steel, 40%
24	0303-06	Pinion gear	55 52 52 52 53 55 55 55 55 55 55 55 55 55 55 55 55	1	1	10.5	Steel, 40X
25	No. 314	Ball bearing 70× ×150×35	· –	2		2.6	
26	No. 3518	Spherical roller bearing 90×160× ×40	_	1		3.6	
27	No. 3612	Spherical roller bearing 60×130× ×46	-	2		3.0	
28	No. 3614	Spherical roller bearing 70×150× ×51	<u>~</u>	1		4.4	
29	No. 7513	Tapered roller bea- ring 65×120×33	_	4		1.48	
30	No. 8210	Thrust ball bearing 50×78×22		1		0.39	

Installed on Excavalors from No. 1 to No. 260 inclusive; not used as spare part
 Installed on Excavators from No. 261 onward; used as a spare part from No. 1

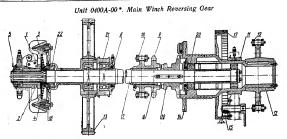


5 ,,				Qua p	ntity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	Ĭ	6 0.021 П-11		
1	0301-38	Lock spring	See unit +300-00, item 12	1	6	0.621	Π-11
2	0401-01	Reversing shaft	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1		35 7	Steel, 40X
3	0401-04	Sprocket skeve	55 88	1	1	2.1	Bronze. AЖ 9-4
4	0401 A-05	Double-row sprocket	- N; t= 60 55-	1	1	11.0	Steel, 30ГЛ
5	0401A-09	Pawl coupling	0.65	1	1	6.4	Steel, 30ГЛ

• Installed on Excavators from No. 1 to No. 90 inclusive

18			9-255 Excavator						
Item number on drawing	Part No.	Part name	Sketch of part	Quar P	atity er adito	Part weight, kg	Material grade	item number on drawing	
6	0401-10	Sheave				5,9	Steel, 30ГЛ	11	G
7	0401-17	Split bushing	000	1	1	5.0	Bronze, AЖ 9-4	12	
В	0401-19	Single-row sprocket	1-81-10	1	1	19.3	Steel, 30F/1	13	
9	0401-22	Friction plate	200		1	20.9	Steel, 30171	15	5
10	0401-22	Cylindrical gear- wheel		1	1	22.2	[Steel, 30 Γ./1	16 17 18 19 20 21	373

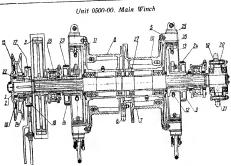
				Quar	ntity	Part	
on drawing	Part No.	Pari name	Sketch of part	unit	machine	weight,	Material grade
11	04012-00	Boom-luffing drum		1	1	49.1	
12	0403-03 <i>A</i>	Ratchet pawl	200 Z	1	1	0.41	Steel, 45
13	04051-01	Belt gasket	8 x 9 t.J	2	2	0.12	Ferrodo
14	ЭКС-168-1	Brake band lining	No.	6	6	0.157	Plastics, KФ-3M
15	ЭКС-169	Friction band lining	88	8	24	0.157	Plastics, ΚΦ-3Μ
16 17 18 19 20 21	No. 216 No. 312 No. 314 No. 3614	Gall's chain t=60, Gall's chain t=60, Ball bearing 80×1 Ball bearing 70×1 Ball bearing 70×1 Spherical roller be.	30 × 31 50 × 35	1 1 1 2 1 1	1	22.47 23.11 1.38 4.71 2.6 4.4	



K K								ntity er	Pari	Material
Item number on drawing	Part No.	Part name	Sketch of part					machine	weight, kg	grade
1	0301-15	Clutch pawl	See ur	rit 0300-00, i	item 5		3	9	0.35	Steel, 45
2	0301-20	Crowd ring	See ur	it 0300-00, i	item 6		1	3	0.35	Steel. 15X
3	0301-21	Clurch	See ur	nit 0300-00,	item 7		1	3	26.2	Steel, 30ГЛ
4	0301-22	Release spring	See u	nit 0300-00,	item 8		1	3	1.65	Steel, 65Γ
5	0301-27	Right coupling	See ur	nit 0300-00,	item 9		1	2	0.92	Steel, 45
6	0301-38	Lock spring	See ur	nit 0300-00,	item 12		1	6	0.021	R-11
7	0401A-01	Reversing shaft	0000	- 095 - 095			1	1	42.0	Steel, 40X
8	0401-04	Sprocket sleeve		See unit	0400-00,	item 3	1	1	2.1	Bronze, AЖ 9-4
9 10 11	0401A-05 0401A-09 0401-17	Double-row sprock Pawl coupling Split bushing	et	See unit	0400-00, 0400-00, 0400-00,	item 5	1 1 1	1 1 1	11.0 6.4 5.0	Steel, 30ГЛ Steel, 30ГЛ Bronze, AЖ 9-4
12 13 14 15 16	0401-19 0401A-22 04012-00 0403-03A ЭКС-166	Single-row sprock Cylindrical gear-w Boom-luffing drun Sprocket pawl Clutch shoe	eel	See unit See unit See unit	0400-00, 0400-00, 0400-00, 0400-00, 0400-00,	item 10 item 11 item 12	1	1 1 1 1 12	19.3 22.2 49.1 0.41 0.78	Steel, 30ГЛ Steel, 30ГЛ Steel Steel, 45 Plastics, KФ-3M
17	ЭКС-168-1	Brake band lining		See unit	0400-00,	item 14	6	6	0.157	Plastics,
18 19	=	Gall's chain, t=60 Gall's chain, t=60	l=2.1 m l=2.16 m		0400-00, 0400- 0 0,			1	22.47 23.11	КФ-3М
20 21 22	No. 312 No. 3614 No. 7513	Ball bearing 60× Spherical roller bear Tapered roller bear	aring $70 \times 150 \times 51$				2 2 1		4.71 4.4 1.48	

^{*} Installed on Excavators from No. 91 onward

Unit 0500-00. Main Winch



	U 13	ų.				
Part No.	Part name	Sketch of part		machine er er	Part weight, kg	Material grade
0501-01*	Main winch shaft	12.5 S S S S S S S S S S S S S S S S S S S	1	1	40.6	Steel, 40X
0501A-01**	Main winch shaft	21-24-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	1	1	40.2	Steel, 40X
0501-02	Cylindrical gear- wheel	977 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	1	1	33.25	Steel, 30FJI
	0501-01* 0501A-01**	Part No. Part name 0501-01* Main winch shaft 0501A-01** Main winch shaft	Part No. Part name Sketch of part Sketch of part OS01-01* Main winch shaft OS01-02 Cylindrical gearwisel	Part No. Part name Sketch of part Osol-01* Main winch shaft Osol-02 Cylindrical gearwisel	Part No. Part name Sketch of part Ocoll-01* Main winch shaft Ocoll-02 Cylindrical gearwisel	Part No. Part name Sketch of part Quantity part Weight, kg

<sup>Installed on Excavators from No. 19 to No. 260 inclusive; not used as a spare part
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with ring (part No. 0501A-15)</sup>

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9-255 Excavator

Unit 0500-00. Main Winch

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; .,				Quantity per Part weight, grade			
on drawing	Part No.	Part No. Part name Sketch of part		machine			
4	0501A-09	Left sheave		1	1	5.9	Steel, 30ГЛ
5	0501-11	Right friction drum	3377 3390 0 3000 0	1	1	54.25	Steel, 30FJ
6	0501-22A	Sprocket	2.27, t-60	The state of the s	1	15.0	Steel, 30F7
7	0501-24	Crane drum	259	1	1	51.7	Steel, 30f J

			Cint ooo oo, man rimer				
<u>۔</u>				Quar	itity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	unit	тасініе	weight, kg	grade
8	0501-27	Straight shovel drum	220	1	1	47.8	Steel, 30171
9	0501 A-28	Right sheave	-00-1	1	1	5.9	Steel, 30ГЛ
10	0501-39	Dragline drum	0.000	1	The second secon	51.2	Steel, 30ГЛ
11	05013-01	Left friction drum	m_ (1)	1	1	54.25	Steel, 30ГЛ

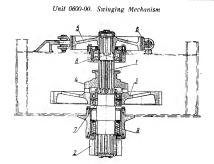
24			3-200 Excurato.				
- i				Qua	ntity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
12	0502-10	Spring, coil	n2.5	2	3	0.5	п-11
13	0502-15	Spring, coil	m- 25	2	3	0.08	П-11
14	0506-01A	Drum		1	1	4.81	АЛ-2
15	0506-02	Gasket		1	1	0.31	Plastics, KΦ-3M
16	0506-03	Drive plate	900	1	1	5.67	Steel, 25Л 111

Unit	0500-00.	Main	Winch

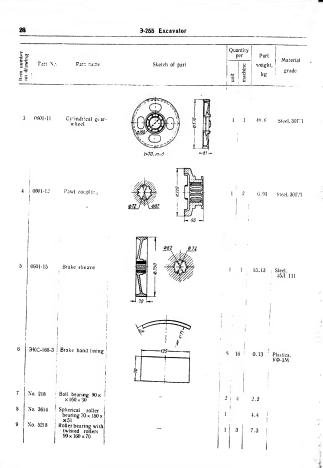
					-											
Item number on drawing	Part No.	Part name	Sketch of part	Qua	ntity er er er	Part weight, kg	Material grade		Item number on drawing	Part No.	· Part name	Sketch of part	Qu	natity per outilo	Part weight, kg	Material grade
	0502-10	Spring, coil	12 025		3	0.5	П-11		17 17	0506-04	ldler sheave		lun I		0.95	Steel, 5
13	0502-15	Spring, coil	117- 1225	2	3	0.08	N-11									
14	0506-01A	Drum		1	1	4.81	АЛ-2		18	0506-05	Sheave		1	1	5.46	Gray cast iron, 21-40
15	0506-02	Gasket		1	1	0.31	Plastics, KΦ-3M	± **	19	0508-01	Single-row sprocket	2-15; 1-60	1	1	13.1	Steel, 40X
16	0506-03	Drive plate	300	1	1	5.67	Steel, 25Л 111		20	0508-04	Ratchet roller	50	6	6	0.07	Steel, 40X

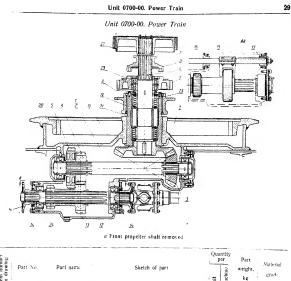
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			9-200 Excavator				
Item number on drawing	Part No.	Part name	Sketch of part	Q:	antity per per	Part weight,	Material grade
21	0508-09	Winch ratchet	255 S	1		6.38	Steel, 40X
22	0301-38	Lock spring	See unit 0300-00, item 12	4	6	0.021	п-11
23	05071-02	Belt gasket	278	2	4	0.12	Ferrodo
24	04051-01	Belt gasket	See unit 0400-00, item 13	4	4	0.157	Plastics, KФ-3M
25	ЭКС-168-2	Brake band lining	105 R	16	16	0.21	Plastics, KФ-3M
26	ЭКС-169	Friction band li- ning	See unit 0400-00, item 15	16	24	0.157	Plastics, ΚΦ-3M
27	No. 216	Ball bearing 80× ×140×26	-	9		1.38	
28	No. 316	Ball bearing 80× ×170×39	~	2	2	3.6	



nber		Part name	Sketch of part	Quantity per			Material
Item number on drawing	Part No.			unit	machine	weight, kg	grade
1	0601-01	Shaft	619	1	1	26.04	Steel, 40X
2	0601-02	Cylindrical gear- wheel	\$ \$2 6.77	1	1	7.89	Steel, 40X





Hem number on drawing	Part No. Part name Sketch of part		Quantity per		Part	Material	
		Part name	Sketch of part	amit	machine	weight,	grad-
1	0701-01 A*	Top horizontal shaft	25	1	1	23.3	Steel, 40X
2	0701-016**	Top horizontal shaft	776	1	1	23.3	Steel, 40X
	• Installed	on Excavators from	No. 1 to No. 260 inclusive	{	İ	1	1

Installed on Excavators from No. 1 to No. 260 inclusive
 Installed on Excavators from No. 261 onward

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9-255 Excavator Item number on drawing Quantity per elimination of the per eliminati Part weight, kg Part No. Material Sketch of part grade 3 0701-02A Bevel gear 1 1 12.8 0701-03A Cylindrical gear-wheel Cylindrical gear-wheel 0701-01 10.78 Steel, 40X 6 0702-01 Vertical shaft 26.95 0702-02 Bottom thrust ring 1.12 Bronze, AЖ 9-4

_			Unit 0700-00. Power Train				31
Item number on drawing	Part No.	Part name	Sketch of part	Qua F	ntity per	Part weight,	Material
ltem n on dra			Section of part	nuit	machine	kg	grade
8	0702-09	Top thrust ring	01.0	1	1	0.518	Bronze, AЖ 9-4
9	0702-12	Cylindrical gear- wheel	2 = 39; m-d	1	1	18.5	Steel, 30 Т Л
10	0702-15	Bevel gear	1 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	1	28.5	Steel, 40X
11	0702-16	Brake sheave	0.66	1	1	18.7	Gray cast iron, 21-40

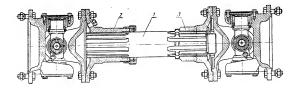
9 - 255	Excavator

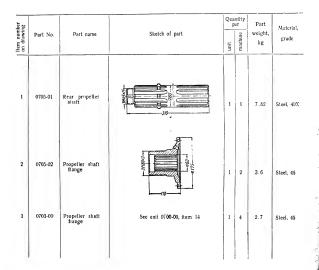
				Τ			
imber ving	Part No.	Part name	Sketch of part	Qua	ntity er	Part weight,	Material
Item number on drawing	Part No.	Part name		mit	machine	kg	grade
12	0703-01	Bottom horizontal shaft	571-5446 670 —	1	1	25.6	Steel, 40X
13	0703-02	Cluster gear	1,=10 is =27	1	1	14.9	Steel, 40X
14	0703-09	Propeller shaft flange	- 57	2	4	2.7	Steel, 45
15	0704-01A	Shift yoke	- N	1	1	1.75	Steel. 25/I 111
16	0704-03	Front sleeve		1	1	0.86	Bronze, AЖ 9-4

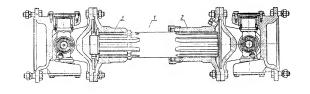
			Unit 0700-00. Power Train				33
ng r				Qua	ntity	Part	Material,
Item number on drawing	Part No.	No. Part name Sketch of part	nuit	machine	weight,	grade	
17	0704-04	Rear sleeve		1	1	0 85	Bronze, AЖ 9-4
18	0601-12	Pawl coupling	See unit 0600-00, i(em +	1	2	6 91	Steel, 30Г.Л
19	1100-02	Journal sleeve	2000	1	1	4.7	Bronze, AЖ 9-4
20	5500-08	Crown ring	91160 S	1	1	200.0	Steel, 30ГЛ
21	5500-09	Power train Journal	0.00 M	1	1	31-0	Steel, 3017I
22	ЭКС-168-3	Brake band lining	See unit 0600-00, item 6	8	16	0.13	Plastics, КФ-3М
23	No. 218	Ball bearing 50 × × 150 × 30	т.	2		2.2	
21	No. 3612	Spherical roller bearing 60 × 130 × 46	~-	4		3.0	
25	No. 5218	Roller bearing with twisted rollers 50×160×70	-	2		7.3	

Unit 0705-00. Rear Propeller Shaft Assy

Unit 0706-00. Front Propeller Shaft Assy



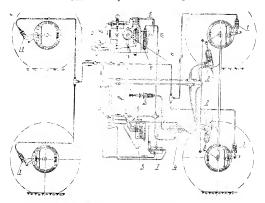




Item number on drawing	Part No.	Part name	Sketch of part	Qua P	ntity er aunucum	Part weight, kg	Material, grade
1	. 0706-01	Front propeller shaft	320	1	1	8.0	Steel, 40X
2	0705-02	Propeller shaft flange	See unit 0705-00, item 2	1	2	3.6	Steel, 45
3	0703-09	Propeller shaft flange	See unit 0700-00, item 14	1-	4	2.7	Steel, 45

E Per					ntity er	Part	Material,
Hem number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
1	09011-01	Front wheel cylin- der	20 2 1	2	2	1.33	Steel
2	0901-01	Front wheel cylin der piston	57	2	2	0.345	Steel, 3
3	0901-02	Piston stem		2	2	0.42	Steel, 45

Unit 0900-00. Hydraulic Control Diagram



a. Pump, Y-471 type. b. Pressure. c. Suction. d. Rotating Union. e. Felt Filter. f. Delivery Line. m. Drain Line. n. Drain Line Filter.

diagram	Unit No.	. Unit name	Shown on page
1	0901-00	Front and rear wheel hydraulic brake cylinders	37
2	0905-00	Right and left Excavator swinging cylinders installation	39
3	0906-00	Transmission gear shifting control	42
4	0907A-00	Transmission gear shifting slide-valve control	44
5	0908-00	Excavator swinging slide-valve	45
6	0^09-00* 0918-00**	Accumulator	46
7	0911-00	Front and rear wheel brake slide-valves	48

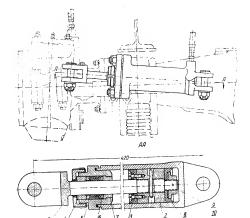
^{*} Installed on Excavators from No. 1 to No. 527 inclusive.

** Installed on Excavators from No. 528 onward.

Sketch of part	Qua p	ntity er	Part weight, kg	Ma gt

					Material,		
Item numb	Part No.	Part name	Sketch of part	nuit	machine	weight,	grade
4	0901-03	Piston spring	1/5 - 1/5 -	2	2	0.09	п-ш
5	09013-00	Rear wheel cylinder	50	2	2	2.05	Steel
6	0901-06	Rear wheel cylin- der piston	705	2	2	0.36	Steel, 3
7	0901-07	Piston stem		2	2	0.42	Steel, 45
8	0901-08	Piston spring		2	2	0.12	п-н
9	ЭКС-154-1	Cylinder collar	343	4	5	0.02	Oil-resistant rubber

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation



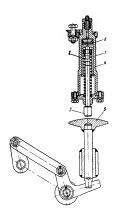
(Rod shown in extreme position)

Item number on drawing	Part No.	Part name	Sketch of part	Qua p	machine er	Part weight, kg	Material, grade
1	0905-01A	Piston stem	175- 2 B	1	2	2.4	Steel, 40X

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation		Unit 0905-00.	Right and	Left	Excavator	Swinging	Cylinders	Installation
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ng u				Qu	antity per	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
2	0905-02	Cylinder piston	AA 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	I	2	0.9	Steel, 5
3	0905-03	Cylinder collar	(3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	I	2	0.03	Oil-resista rubber
4	0905-06	Packing sleeve		1	2	0.132	Bronze, AЖ 9-4
5	0905-11	Release ring	1 St 0	1	2	0.025	Bronze, AЖ 9-4

in g				Qua	ntity er	Part	Material,
on drawing	Part No.	Part name	Sketch of part	mit	machine	weight, kg	grade
6	0905-12	Pressure ring		1	2	0.025	Bronze, AЖ 9-4
7	0905-15	Packing sleeve	100	1	2	0.072	Bronze, AЖ 9-4
8	0005-17	Cylinder collar	- 057 055 050	1	2	0.03	Oil-resista rubber
9	0905-20	Left cylinder	377	1	1	6.5	Steel, 25JI III
10	0905-21	Right cylinder	117	1	I	6.1	Steel, 25JI fill

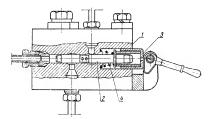


Item number on drawing	Part No.	Part name	Sketch of part		entity ser	Part weight,	Material,
on on				iii.	machine	kg	
1	0906-01	Cylinder piston	110 - 100 -	1	1	0.68	Steel, 3
2	0906-02	Shifting mechanism spring		1	1	0.2	П-11

Unit 0906-00. Transmission Gear Shifting Control

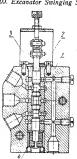
Per R			AND	Qua	ntity er	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight, kg	grade
3	0906-03	Piston stem	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1	1	0.41	Steel, 45
4	09061-01	Cylinder housing	250	1	1	3.44	Steel, 45
5	09062-00	Tappet, assy	257 8 d	1		3.66	Steel
6	9KC-154-1	Collar	See unit 0901-00, item 9	1	5	0.02	_
							Account of the second s

Unit 0907A-00. Transmission Gear Shifting Slide-Valve Control



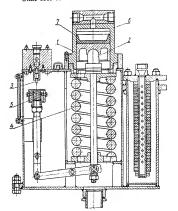
mber				Qu	antity per	Part	Material.
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight,	grade
1	0907-01A	Slide-valve housing		1	1	3.1	Gray east iron, 21-40
2	0911-02	Shifting mechanism slide-valve		1	1	0.08	Steel, 20
3	0911-04	Shifting mechanism	3	1	1	0.07	Steel, 3
4	0911-06	Thrust spring	20 1 20 1	1	1	0.007	п-ш

Unit 0908-00. Excavator Swinging Slide-Valve



ng.				Qua	ntity er	Part	Material,
Iten number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight, kg	grade
1	0908-01	Slide-valve housing		1	1	2.5	Steel, 3
2	0908-02	Slide-valve sleeve	713	1	1	0.39	Steel, 45
3	0908-03	Swinging mecha- nism slide-valye		1	1	0.15	Steel, 20
4	0908-04	Slide-valve spring		1	1	0.02	пл

Units 0909-00* and 0918-00.** Accumulator



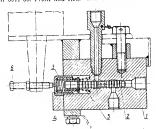
r ge				Qua p	ntity er	Part	Material,
Item number on drawing	Part No.	Part name	Skelch of part	nuit	тасніпе	weight, kg	grade
1	0909-01	Accumulator piston		1	1	2.6	Steel, 5
2	0909-02	Accumulator stem	460	1	1	2.21	Steel, 5

Installed on Excavators from No. 1 to No. 527 inclusive.
 Installed on Excavators from No. 528 onward.

Unit	0909-00.	Accumulator

Hem number on drawing	Part No.	Part name	Sketch of part	Quar	machine machine	Part weight, kg	Malerial, grade
3	0909-07	Accumulator valve	50	1	1	0.035	Steel, 5
4	0909-17	Stem spring		1	1	17.8	Steel, 60C2
5	0909-22A	Lever spring	9 4 4 50 50 S	1	1	0.05	n-11
6	09092-01	Accumulator cylinder		1	1	11.0	Steel, 5
7	ЭКС-154-2	Coilar	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	1	0.24	Oil-resistan rubber

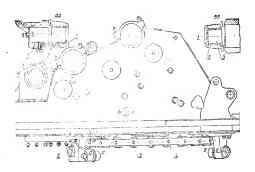
Unit 0911-00. Front and Rear Wheel Brake Slide-Valves



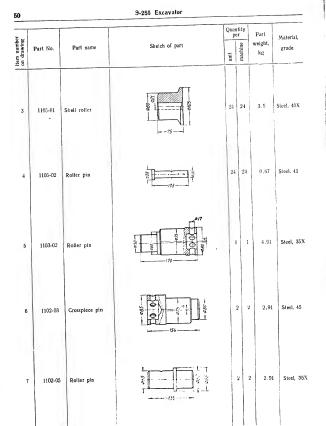
Item number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er ouiuoeu	Part weight, kg	Material, grade
1	0911-01	Slide-valve hous- ing	150 -35-	1	1	3.1	Gray cast iron, 21-40
2	0911-02	Brake slide-valve	See unit 0907A-00, item 2	1	1	0.08	Steel, 20
3	0911-04	Brake slide-valve cup	See unit 0907A-00, item 3	1	1	0.07	Steel, 3
4	0911-05	Adjusting spring		1	1	0.037	П-11
5	0911-06	Thrust spring	See unit 0907A-00, item 4	1	1	0.007	п-11
6	0911-08	Adjusting screw	M10×15	1	1	0.055	Steel, 5

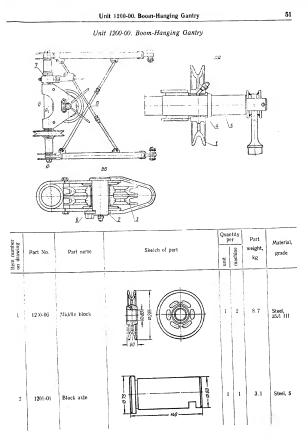
Unit 1100A-00. Turntable

Unit 1100.1-00. Turntable



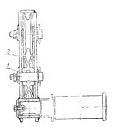
umber	Part No.	Part name	Sketch of part	Quar	r	Part weight,	Material,
Hem number on drawing				nuit	machine	kg	
1	1102-04	Catch roller	0 105	3	3	1.92	Steel, 40X
2	1102-06	Catch roller bu- sliing		3	3	0.35	Bronze, AЖ 9-4
				:			





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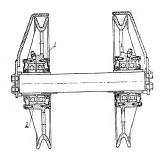
Unit 1903-00. Dipper-Stick Axle



_				Quar	ntity er	Part	Material,
item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight,	grade
1	54202-01	Dipper-stick block	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2	1.2	Steel, 35Л 111
2	1903-05	Block axie		2	2	0,24	Steel, 5

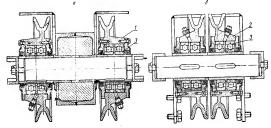
.				Quantity per		Part	Materiai.
on drawing	Part No.	Part name	Sketcn of part	nuit	machine	weight, kg	grade
3	1202-01	Gantry block		2	2	5.4	Steel, 35/1 111
4	1200-05	Bushing	200	2	2	0.36	Bronze, AЖ 9-4
5	1200-09	Gantry axle	559	1	1	25.6	Steel, 35)
6	1202-02	Busting	- 80-	2	2	0.28	Bronze,
7	1200-07	Bushing	750	2	2	0.36	Bronze, AЖ 9-4

Unit 2001-00. Pull Blocks



2 5r	Part No.			Qua P	ntity er	Part	Material,
Item number on drawing		Part name	Sketch of part	noit	machine	weight,	grade
1	1902-02	Pull block		2	2	16.92	Steel, 30ГЛ
2	No. 216	Ball bearing 80 × 140 × 26	_	4		1.38	

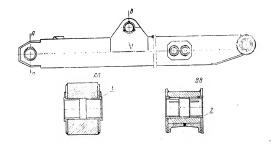
Unit 2002-00 and unit 2102-00. Straight and Back Shovels Hoisting Blocks Unit 2002-00. Straight Shovel Hoisting Blocks Unit 2102-00. Back Shovel Hoisting Blocks



a. Back Shovel Block Installation

			b. Straight Shovel Block Installation				
Item number on drawing	Part No.	Part name	Sketch of part	Qua P	machine cr	Part weight, kg	Material, grade
1	2102-03	Hoisting block	1.000 L	2	2	11.04	Steel, 30FJ
2	2501-04	Hoisting block		2	4	11.04	Steel, 35JI III
3	No. 216	Ball bearing 80 × 140 × 26	-			1.38	-

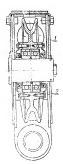
Unit 2200-00. Straight and Back Shovels Dipper-Stick



j 74 j				Qua P	ntity er	Part	Material,
item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
1	2101-01	Dipper-stick bushing	55	2	2	0.01	Bronze, AЖ 9-4
2	2101-04	Dipper-stick bushing	26.5	2	2	0.47	Bronze, AЖ 9-4

Unit 2301 A-00. Bucket Block

Unit 2301A-00. Bucket Block

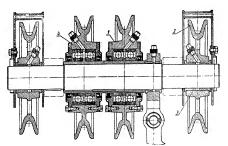


_	1	Pert nam.	a grant man his brown a second re-	Quantity per	Part	Material, grade
Item number on drawing	Part No.		Skelch of part	umit	weight, kg	
1	3303-01	Block	20.50	1 1	8.35	Steel, 35/I III
2	No. 214	Ball bearing 70×125×24		2	1.04	-

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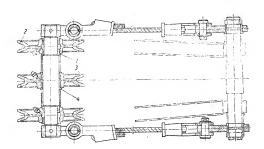
Unit 2501-00. Head Sheaves



- Je				Qua	ntity	Part	Material.
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
1	2501-04	Head sheave	See unit 2102-00, item 2	2	4	11.04	Steel, 35J1 III
2	2501-08	Head slicave		2	4	7.83	Steel, 35/1 111
3	2501-13	Head sheave bushing	20 0	4	4	0,28	Bronze, AЖ 9-4
4	No. 216	Ball bearing 80×140×26	-	4	_	1.38	_

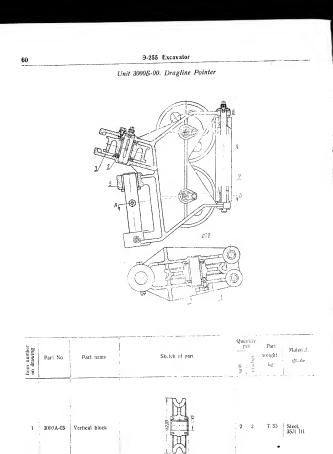
Unit 2800-00. Six-Time Boom Tackle

Unit 2800-00A. Six-Time Boom Tackle



Per Per				Quantity per		Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
1	2800-02	Block busling	25	4	4	0.2	Bronze, A)K 9-4
2	2501-08	Tackie block	See unit 2501-00, item 2	2	4	7.83	Steel, 35.7 111
3	1200-06	Tackle block	See unit 1200-00, item 1	1	2	8.7	Steel, 35/1 111
4	1200-07	Block bushing	See unit 1200-00, item 7	2	2	0.36	

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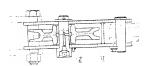


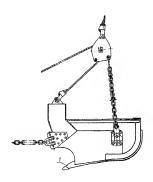
		- L	Init 3000B-00, Dragline Pointer		61
on drawing	Part No.	Part name	Sketch of part	Quantity Par:	Material, grade
2	3000A-04	Vertical and hori- zontal blocks bushing		4 4 0.25	Bronze AЖ 9-4
3	, 2000A-05	Horizontal block		2 2 6.21	Steel, 30FJ
4	30004-06	Roller axle	2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0.8	Steel, 5
5	30.0-03	Pointer bushing	1 2 2 2	2 2 0.3	Bronze, AX 9-4
6	3000-13A	Roller sleeve		4 4 0.08	Gray cas iron, 21-
7	3000-15A	Guide roller	\$	2 2 4.9	Steel, 5

Unit 3103-00. Tilting Block Assy

Unit 3100-00. 035 cu. m Dragline Bucket

Unit 3103-00. Tilting Block Assy

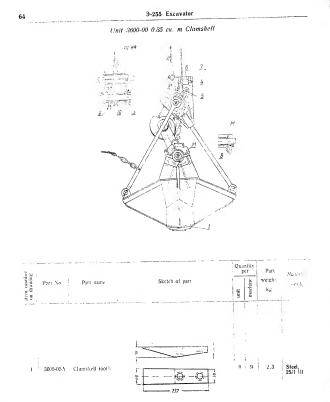




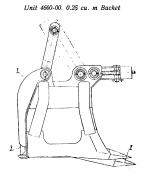
Item number on drawing	Part No.	Part name	Skeich of part	din I	mtity er ouinoui	Part weight, kg	Material, grade
1	3101-07	Bucket tooth	300	4	And the second s	4.2	Steel, 3
				1			

ltem number on drawing	Part No.	Part name	Sketch of part	Quantity per output	Part weight, kg	Material, grade
1	3103-01	Tilting block		1 1 1	5.5	Steel, 30F/I
2	3103-04	Block sleeve	25	2 2	0.135	Steel, 6

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Material,	Part	itity r	Quar	Table 1			2 24
grade	weight, kg	machine	nuit	Sketch of part	Part name	Part No.	on drawing
Bronze, AЖ 9-4	1.0	1	1		Block bushing	3200-13	2
Steel, 5	12.3	1	1	410-	Hanger axle	3200-14	3
Gray cass iron, 15-3	5.3	1	1	749	Bottom guide roller	3200-15	4
Steel, 5	1.72	1	1		Gwide roller axic	3200-16	5
Gray ca iron, 15-	1.4	2	2	\$ 1 - 1 1 2	Top guide roller	3200-17	6
Steel. 5	0.51	2 2			Top guide roller	3200-18	7



Unit 4600-00. 0.25 cu. m Bucket

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٠					ntity er	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	nmit	machine	weight, kg	grade
1	48021-00	Bucket bollom	508 11 1 1 1 1 1 1 1 1 1	1	1	52.2	Steel
2	4600-01	Bucket tooth	20 10	4	4	9.5	Steel, 25/1 111
3	4002-01 A	Bottom latch	900-	1	1	3.7	Steel, 5

on drawing	Part No.		Sketch of part	Qua	Quantity per		Material
		Part name		nnit	machine	weight,	grade
8	32.0-19	Middle bushing	100	2	2	1.2	Bronze, AЖ 9-4
9	3200-10	Block		2	0.1	1-4	Steel, 3501 HI
10	3200-11	Block shell	200	The same of the sa	The state of the s	8,987	Steel, 35J1 III
1)	3200-12	Block bushing	8	2	2	1.3	Bronze, AЖ 9-4

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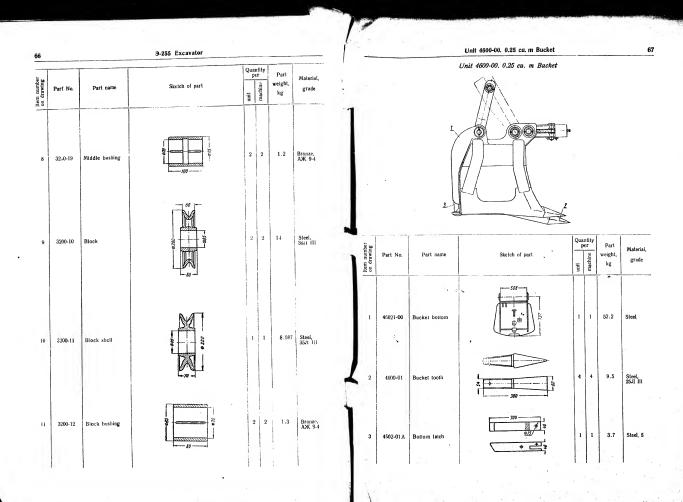
Smolenskaya Sennaya Ploshchad, 32.34 Moscow, G-200

CABLE ADDRESS:
MACHINOEXPORT Moscow

Unit 3600-00, 0.35 cu. m Clamshell Item number on drawing Part name umit weight, Part No. grade 1.0 Bronze, A)K 9-4 3200-13 Block bushing 3200-14 Hanger axle Gray cast iron, 15-32 3200-15 Bottom guide roller 1 1 1.72 Steel, 5 3200-16 1.4 Gray cast iron, 15-32 Top guide roller 3200-17 0.F1 Steel, 5 3203-18 Top guide roller

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